

CLAIMS

1. An anisotropic light diffusion adhesive layer comprising:
 - an adhesive material; and
 - 5 an acicular filler whose refractive index is different from that of the adhesive material,
 - wherein the acicular filler is dispersed as oriented substantially in the same direction.
- 10 2. An anisotropic light diffusion adhesive layer according to claim 1, wherein the acicular filler is colorless or white colored.
3. An anisotropic light diffusion adhesive layer according to claim 1, further comprising a non-acicular filler.
- 15 4. An anisotropic light diffusion adhesive layer according to claim 3, wherein the non-acicular filler is colorless or white colored.
5. A laminated assembly comprising an anisotropic light diffusion adhesive layer according to claim 1.
- 20 6. A laminated assembly according to claim 5, further comprising a separator, wherein the anisotropic light diffusion adhesive layer is formed above the separator.
- 25 7. A laminated assembly according to claim 5, further comprising a pair of

separators, wherein the anisotropic light diffusion adhesive layer is sandwiched between the pair of separators.

8. A laminated assembly according to claim 5, further comprising an optical element selected from a light reflection element, a light diffusion element, a prism element, a light polarization element, a phase difference element, and a viewing angle magnification element, and a separator; wherein the anisotropic light diffusion adhesive layer and the separator are laminated in order upon the optical element.
- 10 9. A laminated assembly according to claim 5, further comprising a light guiding plate and a light reflection element, wherein the anisotropic light diffusion adhesive layer and the light reflection element are laminated in order upon a surface of the light guiding plate opposite from a light emission surface of the light guiding plate.
- 15 10. A laminated assembly according to claim 5, further comprising a light guiding plate and at least one of a light diffusion element and a prism element, wherein the anisotropic light diffusion adhesive layer is formed upon a light emission surface of the light guiding plate, and at least one of the light diffusion element and the prism element is provided upon the anisotropic light diffusion adhesive layer.
- 20 11. A laminated assembly according to claim 5, further comprising a light diffusion element and a prism element, wherein the light diffusion element, the anisotropic light diffusion adhesive layer, and the prism element are laminated together in order.
- 25 12. A laminated assembly according to claim 5, further comprising a prism element

and a light polarization element, wherein the prism element, the anisotropic light diffusion adhesive layer, and the light polarization element are laminated together in order.

13. A laminated assembly according to claim 5, further comprising a light reflection 5 type polarization element and a light absorption type polarization element, wherein the

light reflection type polarization element, the anisotropic light diffusion adhesive layer, and the light absorption type polarization element are laminated together in order.

14. A laminated assembly according to claim 5, further comprising a phase difference

10 element and a light polarization element, wherein the phase difference element, the anisotropic light diffusion adhesive layer, and the light polarization element are laminated together in order.

15. An illumination device comprising an anisotropic light diffusion adhesive layer

15 according to claim 1.

16. An illumination device according to claim 15, further comprising a light source, a

light guiding plate, and a light reflection element, wherein the anisotropic light diffusion

adhesive layer is sandwiched between a pair of optical elements selected from the light

20 guiding plate and the light reflection element.

17. An illumination device according to claim 15, comprising a light source, a light

guiding plate, and a light reflection element, and further comprising at least one optical

element selected from a light diffusion element, a prism element, a light polarization

25 element, a phase difference element, and a viewing angle magnification element, wherein

the anisotropic light diffusion adhesive layer is sandwiched between a pair of optical elements selected from the light guiding plate, the light reflection element, the light diffusion element, the prism element, the light polarization element, the phase difference element, and the viewing angle magnification element.

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18. An anisotropic light diffusion adhesive laminated assembly comprising two or more adhesive layers which comprise an adhesive material,

wherein at least one of the adhesive layers comprises an acicular filler whose refractive index is different from that of the adhesive material, and the acicular filler is dispersed as oriented substantially in the same direction.

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19. An anisotropic light diffusion adhesive laminated assembly according to claim 18, comprising at least two adhesive layers each of which comprises an acicular filler, wherein the acicular filler included in each of the adhesive layers is oriented in a different 15 direction from the acicular fillers included in the other adhesive layers.

20. An anisotropic light diffusion adhesive laminated assembly according to claim 18, wherein at least one adhesive layer comprises a non-acicular filler.

20 21. An anisotropic light diffusion adhesive laminated assembly according to claim 18, wherein at least one adhesive layer comprises a non-oriented acicular filler.

22. An anisotropic light diffusion adhesive laminated assembly according to claim 18, comprising a transparent adhesive layer which comprises neither an acicular filler nor a 25 non-acicular filler.

23. An anisotropic light diffusion adhesive laminated assembly according to claim 18, wherein the acicular filler is colorless or white colored.

5 24. An anisotropic light diffusion adhesive laminated assembly according to claim 20, wherein the non-acicular filler is colorless or white colored.

25. A multi layer sheet comprising:
an anisotropic light diffusion adhesive laminated assembly according to claim 18;

10 and

a transparent base material which has two surfaces,
wherein the anisotropic light diffusion adhesive laminated assembly is provided
upon at least one of the surfaces of the transparent base material.

15 26. A multi layer sheet comprising:

an anisotropic light diffusion adhesive laminated assembly according to claim 18;

and

a separator,
wherein the anisotropic light diffusion adhesive laminated assembly is provided
20 upon the separator.

27. A multi layer sheet comprising:

an anisotropic light diffusion adhesive laminated assembly according to claim 18;

and

25 a pair of separators,

wherein the anisotropic light diffusion adhesive laminated assembly is sandwiched between the pair of separators.

28. An optical laminated assembly comprising:

5 an anisotropic light diffusion adhesive laminated assembly according to claim 18;
a separator; and

an optical element selected from a light reflection element, a light diffusion element, a prism element, a light polarization element, a phase difference element, and a viewing angle magnification element,

10 wherein the anisotropic light diffusion adhesive laminated assembly and the separator are laminated in order upon the optical element.

29. An optical laminated assembly comprising:

an anisotropic light diffusion adhesive laminated assembly according to claim 18;

15 a light guiding plate; and

a light reflection element,

wherein the anisotropic light diffusion adhesive laminated assembly and the light reflection element are laminated in order upon a surface of the light guiding plate opposite from a light emission surface of the light guiding plate.

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30. An optical laminated assembly comprising:

an anisotropic light diffusion adhesive laminated assembly according to claim 18;

a light guiding plate; and

at least one of a light diffusion element and a prism element,

25 wherein the anisotropic light diffusion adhesive laminated assembly is formed

upon a light emission surface of the light guiding plate, while at least one of the light diffusion element and the prism element is provided upon the anisotropic light diffusion adhesive laminated assembly.

5 31. An optical laminated assembly comprising:
an anisotropic light diffusion adhesive laminated assembly according to claim 18;
a light diffusion element; and
a prism element,
wherein the light diffusion element, the anisotropic light diffusion adhesive
10 laminated assembly, and the prism element are laminated together in order.

32. An optical laminated assembly comprising:
an anisotropic light diffusion adhesive laminated assembly according to claim 18;
a prism element; and
15 a light polarization element,
wherein the prism element, the anisotropic light diffusion adhesive laminated
assembly, and the light polarization element are laminated together in order.

33. An optical laminated assembly comprising:
20 an anisotropic light diffusion adhesive laminated assembly according to claim 18;
a light reflection type polarization element, and
a light absorption type polarization element,
wherein the light reflection type polarization element, the anisotropic light
25 diffusion adhesive laminated assembly, and the light absorption type polarization element
are laminated together in order.

34. An optical laminated assembly comprising:
an anisotropic light diffusion adhesive laminated assembly according to claim 18;
a phase difference element, and
5 a light polarization element,
wherein the phase difference element, the anisotropic light diffusion adhesive
laminated assembly, and the light polarization element are laminated together in order.

35. An illumination device comprising an anisotropic light diffusion adhesive
10 laminated assembly according to claim 18.

36. An illumination device comprising:
an anisotropic light diffusion adhesive laminated assembly according to claim 18;
a light source;
15 a light guiding plate; and
a light reflection element,
wherein the anisotropic light diffusion adhesive layer is sandwiched between a
pair of optical elements selected from the light guiding plate and the light reflection
element.

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37. An illumination device, comprising:
an anisotropic light diffusion adhesive laminated assembly according to claim 18;
a light source, a light guiding plate;
a light reflection element; and
25 at least one optical element which is selected from a light diffusion element, a

prism element, a light polarization element, a phase difference element, and a viewing angle magnification element,

wherein the anisotropic light diffusion adhesive layer is sandwiched between a pair of optical elements selected from the light guiding plate, the light reflection element, the light diffusion element, the prism element, the light polarization element, the phase difference element, and the viewing angle magnification element.

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